

PROJECT APPRAISAL REPORT (PAR)

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1. PROJECT NO. 489-22-660-709	2. PAR FOR PERIOD: 9-13-75 TO 10-29-76	3. COUNTRY Korea	4. PAR SERIAL NO. 1977-1
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5. PROJECT TITLE

Seoul National University (SNU) Graduate Program of Basic Science

6. PROJECT DURATION: Began CY 75 Ends CY 80	7. DATE LATEST PROP Project Paper 5-1-75	8. DATE LATEST PIP NA	9. C E PRIOR PAR None
10. U.S. FUNDING	a. Cumulative Obligation : \$5 million	b. Current FY Estimated Budget: \$	c. Estimated Budget to completion After Current FY: \$

11. KEY ACTION AGENTS (Contractor, Participating Agency or Voluntary Agency)

a. NAME Seoul National University (SNU), Seoul, Korea	b. CONTRACT, PASA OR VOL. AG. NO. Implementing Agency of the Loan Project
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I. NEW ACTIONS PROPOSED AND REQUESTED AS A RESULT OF THIS EVALUATION

A. ACTION (X)			B. LIST OF ACTIONS	C. PROPOSED ACTION COMPLETION DATE
USAID	AID/W	HOST		
			No new actions are proposed or requested as a result of this evaluation. The first formal annual evaluation as required under this loan is scheduled for May 1977.	

D. REPLANNING REQUIRES		E. DATE OF MISSION REVIEW			
REVISED OR NEW:	<input type="checkbox"/> PROP <input type="checkbox"/> PIP <input type="checkbox"/> PRO AG <input type="checkbox"/> PIO/T <input type="checkbox"/> PIO/C <input type="checkbox"/> PIO/P				
PROJECT MANAGER: TYPED NAME, SIGNED INITIALS AND DATE Mary C. Neville <i>MCN</i> 11-10-76		MISSION DIRECTOR: TYPED NAME, SIGNED INITIALS AND DATE AID/REP: Dennis P. Barrett 11-11-76			

Introduction

The focus of the following evaluation includes a summary of actions prior to the implementation of this loan, initial implementation actions and inputs/outputs and the verification of the goal and purpose statement of the project. This PAR should provide an informative and useful summary-to-date document. The first collaborative evaluation, with participation from the SNU Project Committee, the U.S. Project Coordinator and the USAID, as required under this loan, in accordance with the plan submitted in compliance with Section 3.2 of the Loan Agreement, is currently scheduled to be conducted in May 1977.. Subsequent to that evaluation, the next PAR will be prepared and submitted.

II. Performance of SNU in Regard to Initial Actions and Key Inputs Relating to the Loan

A. In mid 1973, SNU identified the critical need to create the capability within Korea to produce scientists who are fully qualified by international standards to staff Korea's universities, colleges, industries and research institutes. SNU conceived the idea that this capability could be created effectively through the development at SNU of graduate programs in basic sciences. SNU faculty members conceptualized their idea in their initial proposal, "A Program for the Strengthening of the Basic Sciences Departments at Seoul National University", April 1974.

B. During a six-weeks period, Sept. - Oct., 1974, SNU officials, administrators and faculty members worked jointly with a team of AID-financed U.S. scientists to conduct a feasibility study. The report of the study team, Report of the Korea/USAID Feasibility Study Team, was published October 1974. It served as an excellent basic reference in developing the Project Paper for this loan.

C. SNU provided capable assistance to the AID/W and USAID/K personnel in the preparation of the Project Paper in April, 1975.

D. On the basis of the Project Paper, AID/W authorized the Loan on May 16, 1975.

E. Officials of the ROKG and USAID Korea signed the Loan Agreement on September 13, 1975.

F. In January 1976, the ROKG approved a local currency budget of \$2,237,300 for the project.

G. SNU recruited Dr. W. Ryland Hill as U.S. Project Coordinator and signed with him a two-year personal services contract for the period, June 1, 1976 through May 30, 1978. He arrived at SNU on May 28, 1976, to begin his assignment.

H. SNU recruited Mr. Paul D. Merrick as U.S. Liaison consultant and on June 22, 1976, signed with Mr. Merrick an initial one-year personal services contract for the period, July 1, 1976 through June 30, 1977, with an understanding that the contract would be re-negotiated for the remaining period in the life of the project.

I. To fulfill the final Conditions Precedent (CPs), SNU submitted to USAID on June 11, 1976, documents which include project implementation plans such as schedules for bringing U.S. visiting professors to SNU and sending SNU professors to the U.S. for advanced preparation/research, lists of library materials and laboratory equipment, and project evaluation plans. These plans were developed in consultation with USAID and with Dr. Ryland Hill, on board at SNU as U.S. Project Coordinator. Because of lack of delegated authority from AID/W for USAID/Korea to approve these documents, USAID/K submitted the documents to AID/W for authorization. On August 20, 1976, AID/W approved the SNU documents and on August 23, 1976, USAID issued Implementation Letter No. 6 to advise ROKG/SNU of satisfaction of the said CPs.

J. Prior to meeting the final CPs, and with approval of AID/W, SNU engaged the services of Dr. Chung W. Kim, professor of Physics, Johns Hopkins University, as a U.S. visiting professor at SNU for the period June 5, 1976 to September 4, 1976. Dr. Kim, a distinguished professor of particle physics in the U.S., made an outstanding contribution to the SNU project.

In order to expedite initial implementation of the project, two more American visiting professors were brought to SNU in August, 1976 under an arrangement similar to that for Dr. Kim. Their arrival at the beginning of the second semester at SNU brought to a total of four the number of American professors who have participated and/or are participating in the project since May, 1976. The two American visiting

professors are Dr. Keum Hwi Lee, Associate Professor of Physics, University of Missouri, Columbia, Missouri, and Dr. Dong Hoon Lee, Associate Professor of Mathematics at Case-Western Reserve University in Cleveland, Ohio. Dr. Keum Hwi Lee arrived in Seoul on August 31, 1976, and immediately took up teaching and research duties in the SNU Physics Department as planned by the project personnel. Dr. Dong Hoon Lee arrived in Seoul on August 29, 1976. Dr. Dong Hoon Lee immediately took up duties in the Department of Mathematics where he will serve the project for a year as a U.S. visiting professor.

K. With fulfillment of the CPs, SNU requested issuance of a Letter of Commitment (L/Com) in the amount of \$360,350 to finance: 1) the services and other eligible costs of Mr. Merrick, U.S. Liaison Consultant, and U.S. visiting professors; 2) stipends and allowances for SNU professors going to the U.S. for advanced preparation/research; and 3) procurement of library materials. AID/W issued the L/Com on September 30, 1976, to make funds available for Mr. Merrick to pay for the required services and other eligible costs mentioned above.

L. As a result of the highly successful work initiated by SNU and Dr. Ryland Hill and pursued and finalized in an outstanding manner by Mr. Paul Merrick, all five SNU visiting professors scheduled to go to the U.S. in the fall of 1976 for advanced preparation/research obtained excellent placements in American universities which have strong graduate programs. Three of the universities, University of California at Berkeley, Stanford University, and University of Michigan are among the top ten in the U.S. in the science fields. A Letter of Credit at the Bank of America, San Francisco, enabling Mr. Merrick to pay eligible costs to the SNU visiting professors was opened. All five professors departed Korea for the U.S. on October 21, 1976.

III. Key Outputs Relating to the Initial State of the Loan Project, SNU Graduate Program of Basic Science

A. Objectively verifiable indicators of the excellence of the work of the U.S. visiting professor, Dr. Chung W. Kim, include two publications, 1) Selected Topics in the Theory of Nuclear Beta Decay, and 2) Lectures on the Physics of New Particles. These publications were prepared by Dr. Kim as an integral part of his assignment at SNU. The lecture series and the set of lecture notes on High Energy Particle Physics provide a set of materials which can serve as a basis for future

research in the SNU department of physics. Dr. Kim engaged with several SNU faculty members in theoretical research which will result in publications in scientific journals in the U.S. He also provided counsel to the SNU department of physics concerning its future research directions, and overall guidance to SNU project personnel in regard to the aims and implementation of the SNU project.

B. Dr. Dong Hoon Lee has begun research with an SNU professor, and this effort will lead to collaborative research at Dr. Lee's home university, as the SNU professor is scheduled to go there following Dr. Lee's return to the U.S.

C. Dr. Keum Hwi Lee has begun research with the solid-state group in the physics department, research which is of special importance to the development of the electronic industry in Korea.

IV. Purpose of the Loan Project

A. The purpose of this Project is to develop the graduate program of basic science at SNU by 1980, to produce scientists who are fully qualified by international standards to staff Korea's universities, colleges, industries and research institutes. This purpose which is the same as that stated in the Project Paper is still valid.*

B. Conditions which will exist when purpose stated above is achieved.

1. An organized, qualified graduate faculty of science and mathematics by 1980.
2. Fewer Koreans going abroad for graduate degree programs.
3. Appropriate curricula.
4. Instructional materials, libraries and laboratories required to produce qualified personnel and plans for continued maintenance.
5. Research capability.

* Seoul 7014 dated 9-9-75 and State 216512 dated 9-12-75 document SNU's decision and AID/W approval that the project should be the Graduate Program of Basic Science, enabling the project to benefit from talents of science professors throughout the SNU faculties.

6. Consultative capability.
7. Capability for evaluating student performance.
8. Procedures for evaluating capability of faculty in achieving its objectives.

C. As the project has just been launched with a total of four U. S. visiting professors having participated at SNU and a total of five SNU professors having been placed at U. S. universities, it is too early to cite evidence of progress additional to the list of accomplishments detailed in section II of this Report.

V. Goal of the Loan Project

The goal of this project is to create the capability within Korea to produce scientific personnel required for Korean development.

Achievement of the purpose of this project will make a significant contribution to the project goal. At the highest level of government and throughout the private as well as the public sector in Korea, SNU is regarded as the most prestigious institution of higher education in the country and is relied upon to provide qualified leadership and manpower essential for national development. With the successful establishment of the Graduate Program of Basic Science at SNU, Korea will have the capability to produce scientific and technical personnel required to meet national development needs. As the project has just been launched, it is too early to show evidence that accomplishment of the project purpose has contributed significantly to the project goal.